

# **DELL 2900 Server Specifications for McKesson Pharmacy Systems**

**Product Name: DELL PE2900 Server**



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## DELL PE2900 Information

### Dimensions for the DELL 2900 Server

The DELL 2900 Server has the following approximate dimensions:

- 9 inches wide
- 19 inches high
- 28 inches depth

It is recommended that the server is placed in a well ventilated room with 4 to 6 inches of space behind the server for cable connections and for heat exhaust/air circulation.

### Decibel Levels

You may want to consider the noise level of the DELL server before determining a placement for your server. The DELL 2900 operates with the following approximate decibel (dB A) levels:

- 72 dB A at startup\* – equivalent to a vacuum cleaner.
- 55 dB A at standing run – equivalent to a large office.

In comparison, the DELL 1800 server operates with the following approximate decibel levels:

- 64 dB A at startup\*
- 51 dB A at standing run

\* Startup for either server runs approximately 2 minutes.

### Weight

The DELL 2900 Server is associated with the following weights:

- 116 lbs inside the shipping container
- 92 pounds without the shipping container

Use caution whenever you are lifting or moving the server. Always have a helper on hand before moving the server. The server is shipped with two stabilizing feet and two sets of rolling casters.

Please consider the proper personnel and tools required when placing a server on an elevated surface. It is recommended that the casters are not installed when placing the server on an elevated surface.

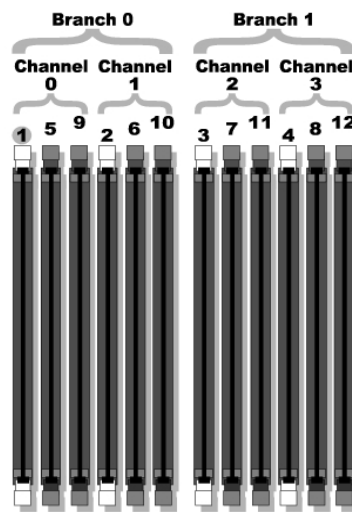
## Hardware Part Number

PE2900 Premium with 1.60GHz processor and 1066MHz Front-side bus speed is MPS part number 222-3391

## Hardware Configuration

The Dell PE 2900 Premium server has one standard configuration. The technical specifications are:

- Windows Server 2003 Standard, SP1, Internet Explorer 7
- Configurable as member server or Domain Controller
- Minimum Pharmaserv build Version 3.2.0.1
- Front-side bus speed depends on the part number
- 4GB 533MHz (4x1GB), Dual Ranked DIMMs



- 933 Watt Redundant 110/220V Power Supplies
- 48X Combo CD-RW/DVD-ROM
- 1X8 BACKPLANE,3.5HDD
- 6X 300GB, SAS 3.5IN Hot Swap Drives
- 5 1/4 drive enclosure CRU-DATA PORT with SATA drive, 500GB drive
- 3 additional CRU-DATA Carriers with SATA drives, 500 GB
- 5 1/4 (2 bays) Dell Flex Bay with two 500 GB SATA drives
- Integrated ATI ES1000 controller with 16MB of SDRAM
- PERC5/I,X6,INTEGRATED controller with 256MB cache
- Dual embedded Broadcom® NetXtreme II™ 5708 Gigabit2 Ethernet NIC with fail-over and load balancing.
- Intel 5000X chipset
- 1 x8 PCI Express – x8 lane with x8 connector
- 3 x4 PCI Express – x4 lane with x8 connector
- 2 x 64-bit/133MHz PCI-X – supports full-height, full-length 3.3v PCI or PCI-X cards
- 2 USB 2.0 ports on the front, 4 USB 2.0 ports on the back
- 1 RS232 serial port on the back
- 1 VGA connector on the front and one in the back

- Avocent SST-8P PCI MUX and fan out cable
- SIIG SATA II PCIE ROHS compliant 2 Port card
- TRIPP LITE Serial ATA cable
- Keyboard, USB, black
- Mechanical two-button mouse, USB, black
- Two Stabilizing feet
- EDOCS and OPENMANAGE CD kit
- Dell OpenManage 5.1.0
- DRAC 5
- Standard Baseboard Management Controller with IPMI 2.0 support
- Two sets of rolling casters P/N TJ201
- 5U Tower or Rack-mountable chassis
- Tower Dimensions (without bezel): 18.85" (47.89cm) H w/feet x 8.92" (22.66cm) W x 26.55" (67.43cm) D; (including LCD panel).
- Tower Weight 49.9 kg (110 lb), maximum configuration
- Rack with rack flanges: 8.57" (21.77 cm) H x 17.43" (44.27 cm) W x 26.55" (67.43 cm) D
- Rack Weight 45.36 kg (100 lb), maximum configuration
- PESS BASIC NBD TECH SPT,3YR,PE2900
- PESS BASIC NBD OS,UNY,INIT,PE2900
- PESS BASIC NBD OS,UNY,2YR EXT,PE2900

### **Hardware No Longer Available**

Please note that the following hardware is no longer available in the PE 2900 Premium:

- Parallel ports
- 3.5" diskette drive
- PS2 ports

## Front-Panel Features and Indicators

Figure 1-1 shows the controls, indicators, and connectors located behind the optional rack bezel on the system's front panel. Table 1-2 provides component descriptions.






Refer to the **DELL 2900 Premium Server Components Installation for Technical Support** guide for additional information.

**Figure 1-1. Front-Panel Features and Indicators**

Server is similar to the following picture:



Table 1-2. Front-Panel Components

Item	Component	Icon	Description
1	Power-on indicator, power button		<p>The power-on indicator lights when the system power is on. The power button controls the DC power supply output to the system.</p> <p><b>NOTE:</b> If you turn off the system using the power button and the system is running an ACPI-compliant operating system, the system performs a graceful shutdown before the power is turned off. If the system is not running an ACPI-compliant operating system, the power is turned off immediately after the power button is pressed.</p>
2	NMI button		<p>Used to troubleshoot software and device driver errors when using certain operating systems. This button can be pressed using the end of a paper clip.</p> <p>Use this button only if directed to do so by qualified support personnel or by the operating system's documentation.</p>
3	System identification button		<p>The identification buttons on the front and back panels can be used to locate a particular system within a rack. When one of these buttons is pushed, the LCD panel on the front and the blue system status indicator on the back blink until one of the buttons is pushed again.</p>
4	LCD panel		<p>Provides system ID, status information, and system error messages.</p> <p>The LCD lights during normal system operation. Both the system management software and the identification buttons located on the front and back of the system can cause the LCD to flash blue to identify a particular system.</p> <p>The LCD lights amber when the system needs attention, and the LCD panel displays an error code followed by descriptive text.</p> <p><b>NOTE:</b> If the system is connected to AC power and an error has been detected, the LCD lights amber regardless of whether the system has been powered on.</p>
5	USB connectors (2)		Connects USB 2.0-compliant devices to the system.
6	Video connector		Connects a monitor to the system.
7	Optical drive		The CD-ROM drive
8	CRU Drive		Contains a SATA 500 GB Drive
9	Dell Flex Bay		Two SATA 500 GB drives
10	Hard drives		Room for eight hot-pluggable bays for 3.5-inch SAS or SATA hard drives connected to a 1x8 SAS backplane.

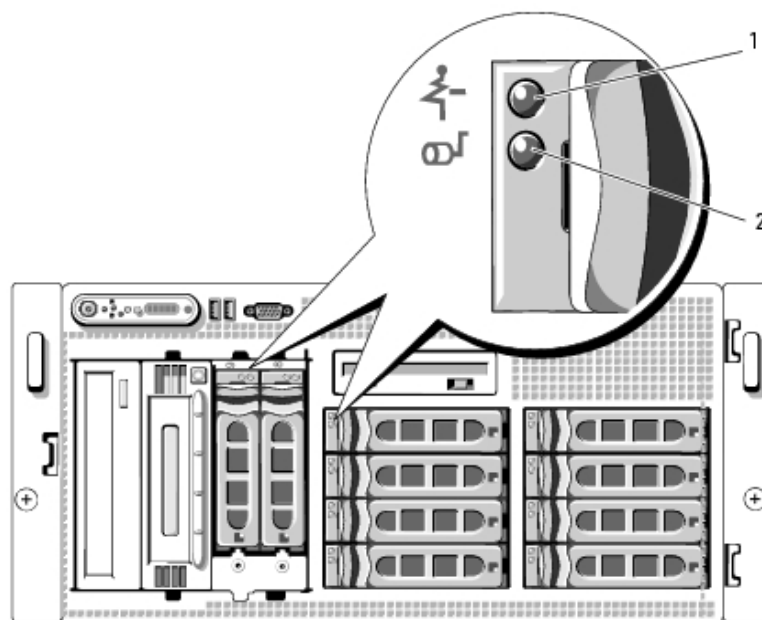


## Hard-Drive Indicator Codes

The hard-drive carriers have two indicators—the drive-activity indicator and the drive-status indicator. See Figure 1-2. In RAID configurations, the drive-status indicator lights to indicate the status of the drive. In non-RAID configurations, only the drive-activity indicator lights; the drive-status indicator is off.

**Figure 1-2. Hard-Drive Indicators**

Hard drive indicator lights are similar to the following picture:



1. drive-status indicator (green and amber)
2. green drive-activity indicator

Table 1-3 lists the drive indicator patterns for RAID hard drives. Different patterns are displayed as drive events occur in the system. For example, if a hard drive fails, the "drive failed" pattern displays. After the drive is selected for removal, the "drive being prepared for removal" pattern displays, followed by the "drive ready for insertion or removal" pattern. After the replacement drive is installed, the "drive being prepared for operation" pattern displays, followed by the "drive online" pattern.

**Table 1-3. Hard-Drive Indicator Patterns for RAID**

Condition	Drive-Status Indicator Pattern
Identify drive/preparing for removal	Blinks green two times per second
Drive ready for insertion or removal	Off
Drive predicted failure	Blinks green, amber, and off.
Drive failed	Blinks amber four times per second.
Drive rebuilding	Blinks green slowly.
Drive online	Steady green.
Rebuild aborted	Blinks green three seconds, amber three seconds, and off six seconds.

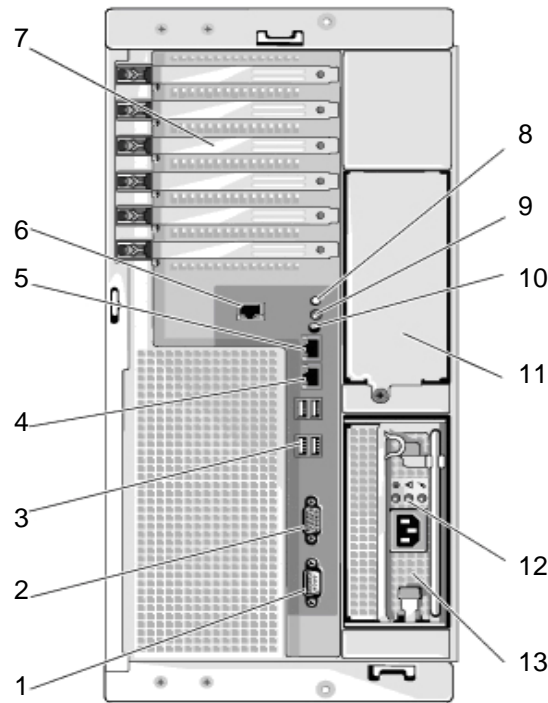
## Back-Panel Features and Indicators

Figure 1-3 shows the controls, indicators, and connectors located on the system's back panel.

Refer to the **DELL 2900 Premium Server Components Installation for Technical Support** guide for additional information.

**Figure 1-3. Back-Panel Features and Indicators**

Server is similar to the following picture:



**NOTE:** The MUX will be located in the bottom expansion slot. The SIIG SATA II PCIE ROHS compliant 2 Port card will be located in the top expansion slot.

1	serial connector	2	video connector	3	USB connectors (4)
4	NIC1 connector	5	NIC2 connector	6	remote access connector (optional)
7	expansion-card slots (6)	8	system status indicator	9	system identification button
10	system status indicator connector	11	power supply 2 (not shown in this picture)	12	power supply status indicators
13	power supply 1				

## Connecting External Devices

When connecting external devices to your system, follow these guidelines:

- Most devices must be connected to a specific connector and device drivers must be installed before the device operates properly. (Device drivers are normally included with your operating system software or with the device itself.) See the documentation that accompanied the device for specific installation and configuration instructions.
- Always attach an external device while your system and the device are turned off. Next, turn on any external devices before turning on the system (unless the documentation for the device specifies otherwise).
- USB devices will sometimes stall the system boot up when the BIOS is posting.

## Power Indicator Codes

The power button on the front panel controls the power input to the system's power supplies. The power indicator lights green when the system is on.

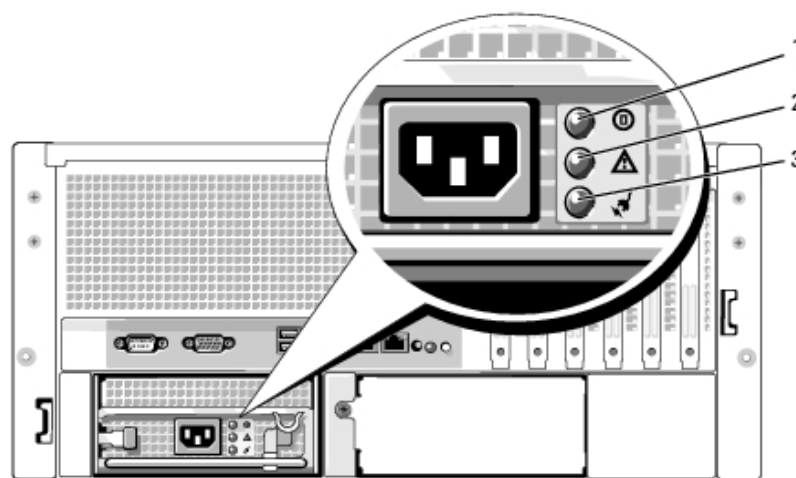
The indicators on the optional redundant power supplies show whether power is present or whether a power fault has occurred (see Table 1-4 and Figure 1-4).

**Table 1-4. Redundant Power Supply Indicators**

Indicator	Function
Power supply status	Green indicates that the power supply is operational.
Power supply fault	Amber indicates a problem with the power supply.
AC line status	Green indicates that a valid AC source is connected to the power supply.

**Figure 1-4. Redundant Power Supply Indicators**

Power indicator codes are similar to the following picture:



1. power supply status
2. power supply fault
3. AC line status